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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2019-08-01-01** **Date: 26-06-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Drain at A Sector Main Road in Ward No 04, Yelahanka Division.
Agency	:	Sri.Mohit Gowda G, No:251, 2nd Main Road, Hebbal, Bangalore-560024.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/06/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-06-19
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	25-06-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

Note:

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Authorized Signatory
Technical Manager

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2019-08-01-01** **Date: 01-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Drain at A Sector Main Road in Ward No 04, Yelahanka Division.
Agency	:	Sri.Mohit Gowda G, No:251, 2nd Main Road, Hebbal, Bangalore-560024.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/06/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-06-19
Sample Type /Size	:	Precast Cover Slab(100 mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	27/06/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 08/07/2019

Lab ID	:	CP-2019-08-01-01
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Drain at A Sector Main Road in Ward No 04, Yelahanka Division.
Agency	:	Sri.Mohit Gowda G, No:251, 2nd Main Road, Hebbal, Bangalore-560024.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/06/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-07-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	01/07/2019	08/07/2019	150.81 X 151.16 X 151.24	22796	8.431	432.2	19.0	18.6
2	Drain Bottom Slab Concrete	M20	01/07/2019	08/07/2019	151.87 X 150.10 X 151.59	22796	8.654	427.5	18.8	
3	Drain Bottom Slab Concrete	M20	01/07/2019	08/07/2019	149.77 X 151.86 X 151.31	22745	8.565	414.8	18.2	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 29/07/2019

Lab ID	:	CP-2019-08-01-01
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Drain at A Sector Main Road in Ward No 04, Yelahanka Division.
Agency	:	Sri.Mohit Gowda G, No:251, 2nd Main Road, Hebbal, Bangalore-560024.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/06/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-07-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	01/07/2019	29/07/2019	149.77 X 149.05 X 149.55	22323	8.520	525.4	23.5	23.1
2	Drain Bottom Slab Concrete	M20	01/07/2019	29/07/2019	150.66 X 149.96 X 149.77	22594	8.032	515.0	22.8	
3	Drain Bottom Slab Concrete	M20	01/07/2019	29/07/2019	149.28 X 151.35 X 149.56	22593	8.743	521.9	23.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 08/07/2019

Lab ID	:	CP-2019-08-01-01
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Drain at A Sector Main Road in Ward No 04, Yelahanka Division.
Agency	:	Sri.Mohit Gowda G, No:251, 2nd Main Road, Hebbal, Bangalore-560024.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/06/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-07-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5
Date of test	:	08/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	01/07/2019	08/07/2019	150.70 X 149.76 X 149.27	22569	8.431	414.9	18.4	18.2
2	Drain Bottom Slab Concrete	M20	01/07/2019	08/07/2019	149.20 X 151.11 X 149.64	22547	8.654	407.1	18.1	
3	Drain Bottom Slab Concrete	M20	01/07/2019	08/07/2019	149.60 X 151.07 X 150.42	22600	8.565	407.6	18.0	

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Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Drain at A Sector Main Road in Ward No 04, Yelahanka Division.
Agency	:	Sri.Mohit Gowda G, No:251, 2nd Main Road, Hebbal, Bangalore-560024.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/06/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-07-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5
Date of test	:	29/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	01/07/2019	29/07/2019	151.26 X 150.19 X 151.70	22719	8.520	540.5	23.8	23.2
2	Drain Bottom Slab Concrete	M20	01/07/2019	29/07/2019	151.57 X 151.83 X 151.90	23014	8.032	514.5	22.4	
3	Drain Bottom Slab Concrete	M20	01/07/2019	29/07/2019	150.84 X 149.88 X 150.87	22608	8.743	531.9	23.5	

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Lab ID	:	**CP-2019-08-01-01** **Date: 11/07/2019**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Drain at A Sector Main Road in Ward No 04, Yelahanka Division.
Agency	:	Sri.Mohit Gowda G, No:251, 2nd Main Road, Hebbal, Bangalore-560024.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/06/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-07-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5
Date of test	:	11/07/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	04/07/2019	11/07/2019	149.57 X 151.78 X 149.26	22701	8.431	409.7	18.0	18.4
2	Drain Side Wall Concrete	M20	04/07/2019	11/07/2019	151.28 X 150.52 X 150.72	22771	8.654	418.9	18.4	
3	Drain Side Wall Concrete	M20	04/07/2019	11/07/2019	151.05 X 151.74 X 150.77	22921	8.565	429.6	18.7	

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 11/07/2019

Lab ID	:	CP-2019-08-01-01
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Drain at A Sector Main Road in Ward No 04, Yelahanka Division.
Agency	:	Sri.Mohit Gowda G, No:251, 2nd Main Road, Hebbal, Bangalore-560024.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/06/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-07-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	11/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	04/07/2019	11/07/2019	150.65 X 149.78 X 151.01	22564	8.431	426.4	18.9	18.5
2	Drain Side Wall Concrete	M20	04/07/2019	11/07/2019	149.86 X 151.13 X 151.30	22649	8.654	412.3	18.2	
3	Drain Side Wall Concrete	M20	04/07/2019	11/07/2019	151.29 X 151.96 X 149.70	22990	8.565	426.3	18.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 01/08/2019

Lab ID	:	CP-2019-08-01-01
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Drain at A Sector Main Road in Ward No 04, Yelahanka Division.
Agency	:	Sri.Mohit Gowda G, No:251, 2nd Main Road, Hebbal, Bangalore-560024.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/06/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-07-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	04/07/2019	01/08/2019	150.52 X 150.43 X 150.91	22642	8.520	522.9	23.1	23.1
2	Drain Side Wall Concrete	M20	04/07/2019	01/08/2019	149.27 X 150.72 X 151.71	22498	8.032	511.7	22.7	
3	Drain Side Wall Concrete	M20	04/07/2019	01/08/2019	151.35 X 149.73 X 151.19	22661	8.743	534.2	23.6	

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-08-01-01** **Date: 24-06-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Drain at A Sector Main Road in Ward No 04, Yelahanka Division.
Agency	:	Sri.Mohit Gowda G, No:251, 2nd Main Road, Hebbal, Bangalore-560024.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/06/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-06-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	21-06-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.44	–
2	Finess by Air permeablity method (m^2/kg,Min)	255.6	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-08-01-01** **Date: 19-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Drain at A Sector Main Road in Ward No 04, Yelahanka Division.
Agency	:	Sri.Mohit Gowda G, No:251, 2nd Main Road, Hebbal, Bangalore-560024.
Customer's Reference	:	EE(YNK D)E-PMT-09/W.O/06/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-06-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	21-06-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

CIVIL Pro Sig. Date BANGALORE

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-08-01-01** **Date: 22-06-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Drain at A Sector Main Road in Ward No 04, Yelahanka Division.
Agency	:	Sri.Mohit Gowda G, No:251, 2nd Main Road, Hebbal, Bangalore-560024.
Customer Reference	:	EE(YNK.D)E-PMT-09/W.O/06/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-06-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	20-06-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2675	2920	58.4	41.6	25-55
4	4.75 mm	1798	4718	94.4	5.6	0-10
5	Pan	282	5000	100	0	–

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2019-08-01-01** **Date: 22-06-19**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC Drain at A Sector Main Road in Ward No 04, Yelahanka Division.
Agency	:	Sri.Mohit Gowda G, No:251, 2nd Main Road, Hebbal, Bangalore-560024.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/06/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-06-19
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	20-06-19
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2019-08-01-01 Date: 22-06-19

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
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